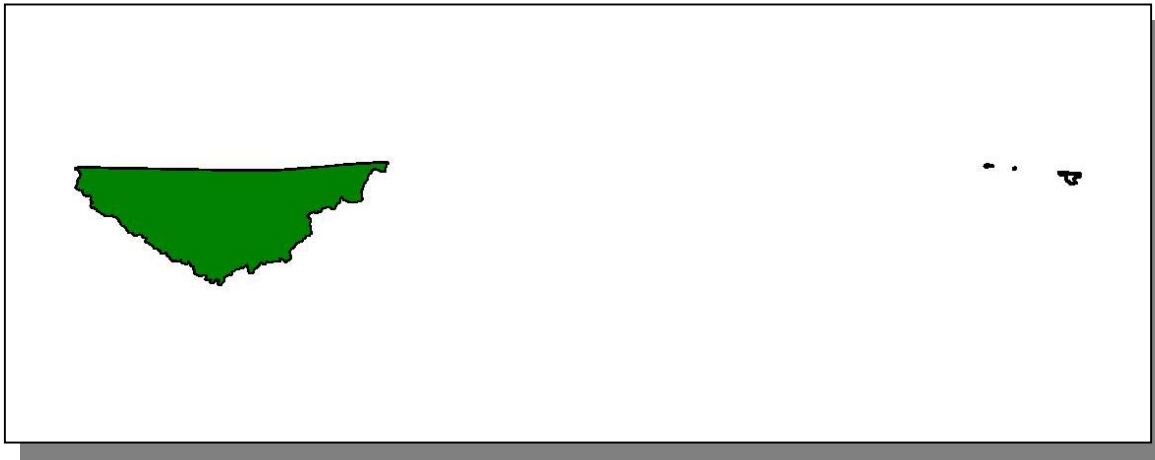
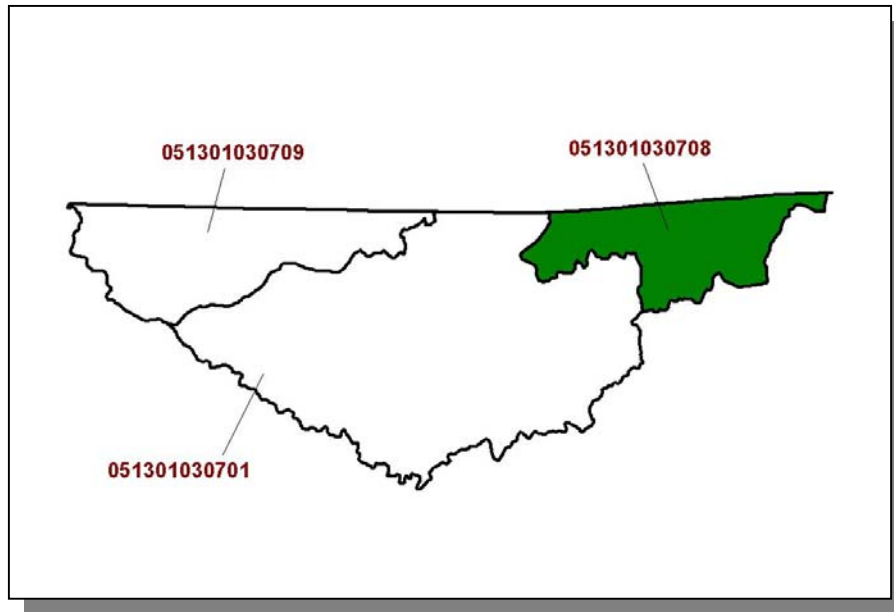


**4.2.B. 0513010307.**

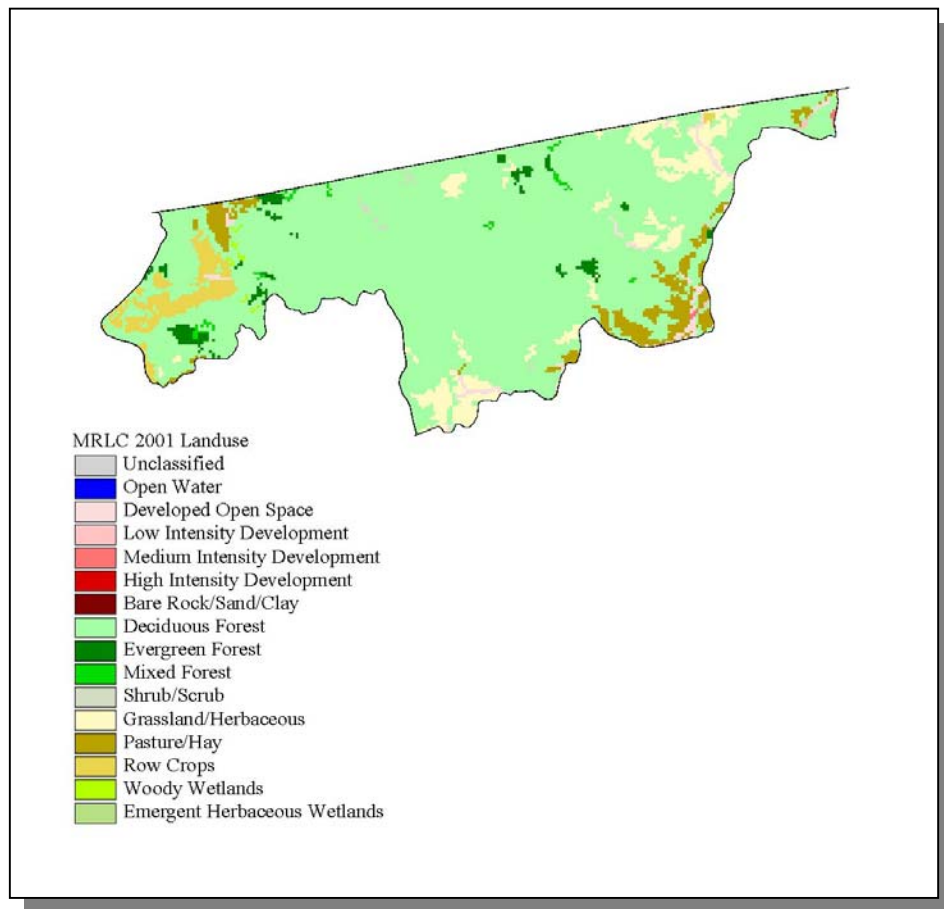


**Figure 4-5. Location of Subwatershed 0513010307.** All Upper Cumberland River HUC-10 subwatershed boundaries in Tennessee are shown for reference.

**4.2.B.i. 051301030708 (Kettle Creek).**

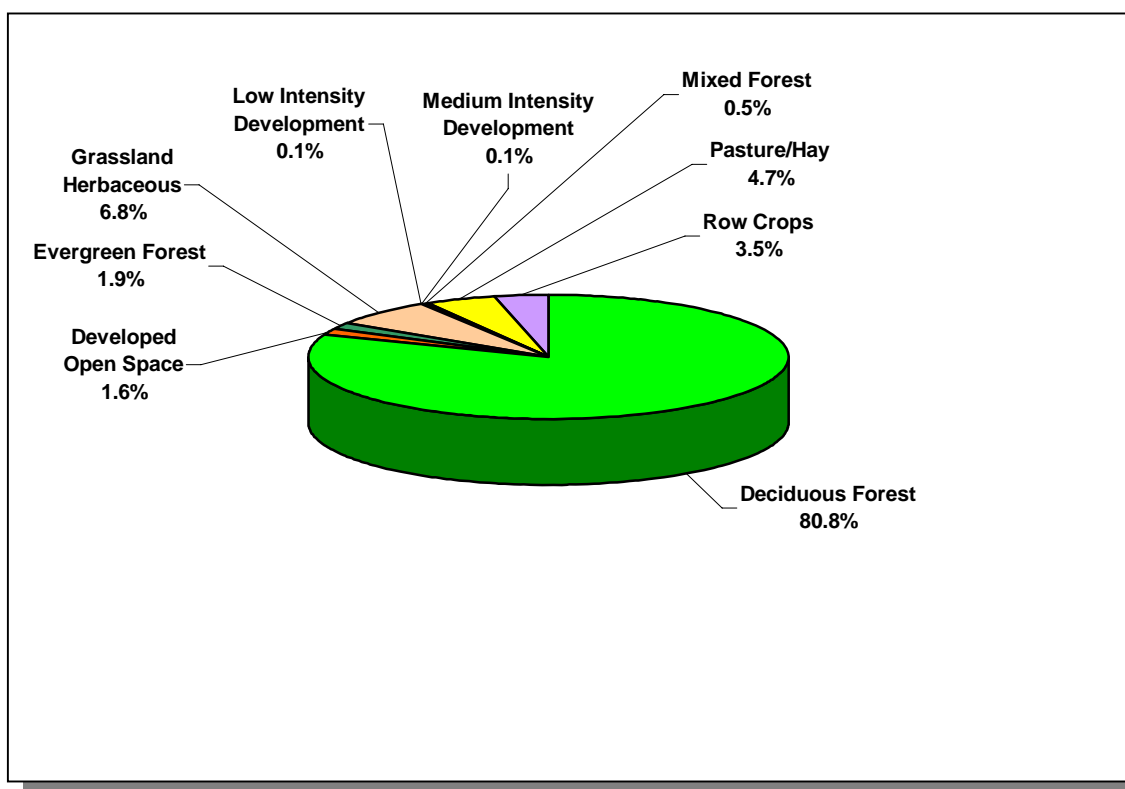


**Figure 4-6. Location of Subwatershed 051301030708.** All Upper Cumberland River HUC-12 subwatershed boundaries in Tennessee are shown for reference.

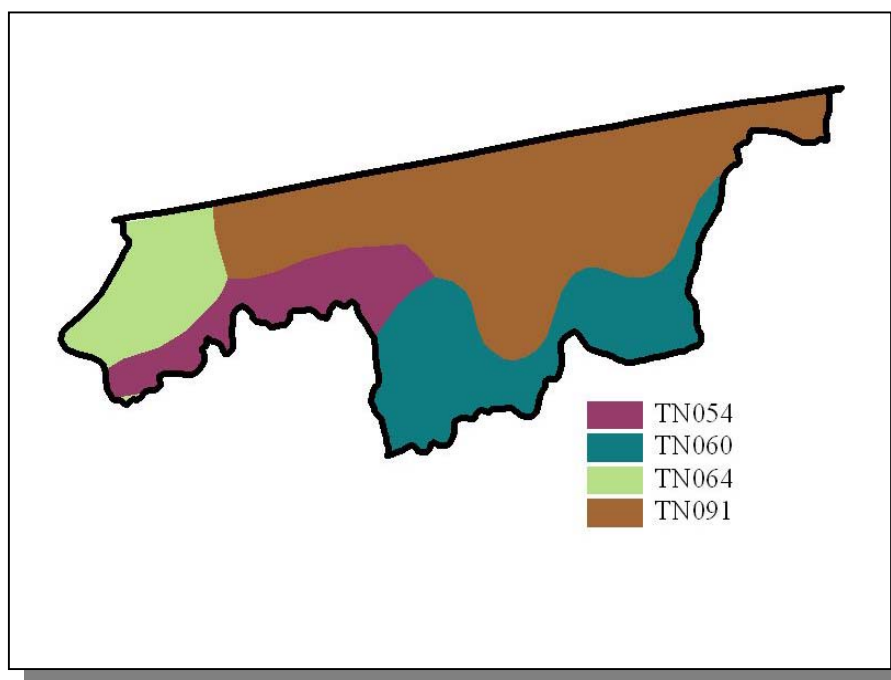


**Figure 4-7. Illustration of Land Use Distribution in Subwatershed 051301030708.**

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**Figure 4-8. Land Use Distribution in Subwatershed 051301030708.** More information is provided in Appendix IV.



**Figure 4-9. STATSGO (State Soil Geographic Database) Soil Map Units in Subwatershed 051301030708.**

STATSGO MAP UNIT ID	PERCENT HYDRIC	HYDROLOGIC GROUP	PERMEABILITY (in/hour)	SOIL pH	ESTIMATED SOIL TEXTURE	SOIL ERODIBILITY
TN054	0.00	C	3.04	4.84	Loam	0.32
TN060	5.00	B	1.30	5.32	Silty Loam	0.39
TN064	7.00	C	1.19	5.82	Silty Loam	0.37
TN091	0.00	B	2.95	5.86	Loam	0.34

**Table 4-6. Soil Characteristics by STATSGO (State Soil Geographic Database) Soil Map Units in Subwatershed 051301030708.** The definition of "Hydrologic Group" is provided in Appendix IV.

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County	COUNTY POPULATION			Portion of Watershed (%)	ESTIMATED POPULATION IN WATERSHED			% Change (1990-2000)
	1990	1997	2000		1990	1997	2000	
Clay	7,238	7,311	7,976	1.99	144	145	158	9.7

***Table 4-7. Population Estimates in Subwatershed 051301030708.***

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**4.2.B.i.a. Point Source Contributions.**

There are no point source contributions in this subwatershed.

**4.2.B.i.b. Nonpoint Source Contributions.**

LIVESTOCK COUNTS	
Cattle	Hogs
95	<5

**Table 4-8. Summary of Livestock Count Estimates in Subwatershed 051301030708.** According to the 1997 Census of Agriculture (<http://www.nass.usda.gov/census/>), "Cattle" includes heifers, heifer calves, steers, bulls and bull calves.

LIVESTOCK COUNTS				
County	Cattle	Chickens (Layers)	Hogs	Sheep
Clay	14,574	18	174	23

**Table 4-9. Summary of Livestock Count Estimates in Clay County.** According to the 1997 Census of Agriculture (<http://www.nass.usda.gov/census/>), "Cattle" includes heifers, heifer calves, steers, bulls and bull calves; "Chickens" are layers 20 weeks and older.

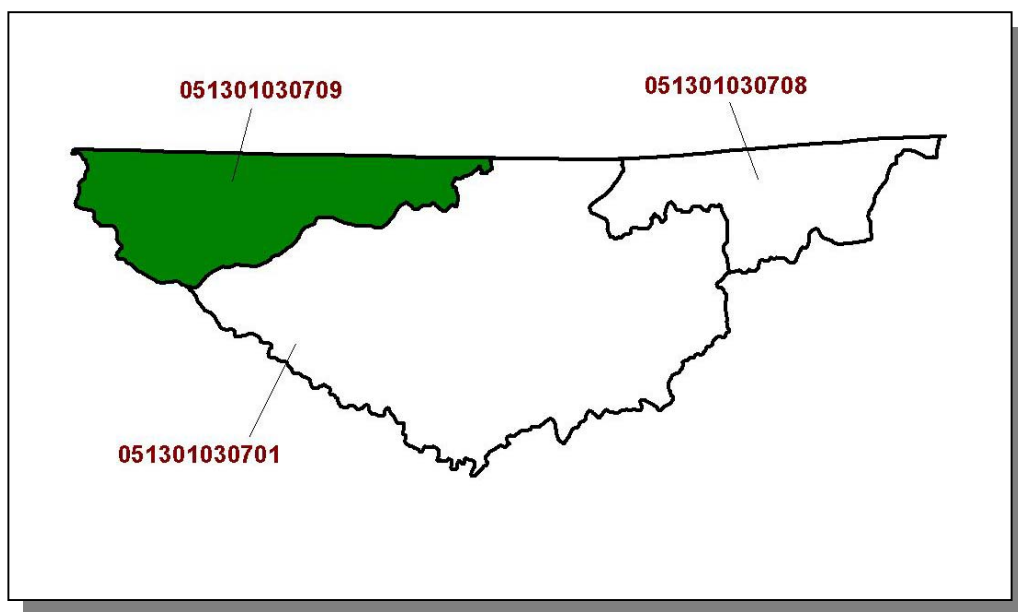
County	INVENTORY		REMOVAL RATE	
	Forest Land (thousand acres)	Timber Land (thousand acres)	Growing Stock (million cubic feet)	Sawtimber (million board feet)
Clay	105.1	105.1	2.3	10.1

**Table 4-10. Forest Acreage and Annual Removal Rates (1987-1994) in Clay County.**

CROPS	TONS/ACRE/YEAR
Grass (Pastureland)	1.14
Grass (Hayland)	0.40
Legumes, Grass (Hayland)	0.53
Grass, Forbs, Legumes (Mixed Pasture)	1.38
Tobacco (Row Crops)	28.52
Farmsteads and Ranch Headquarters	1.56

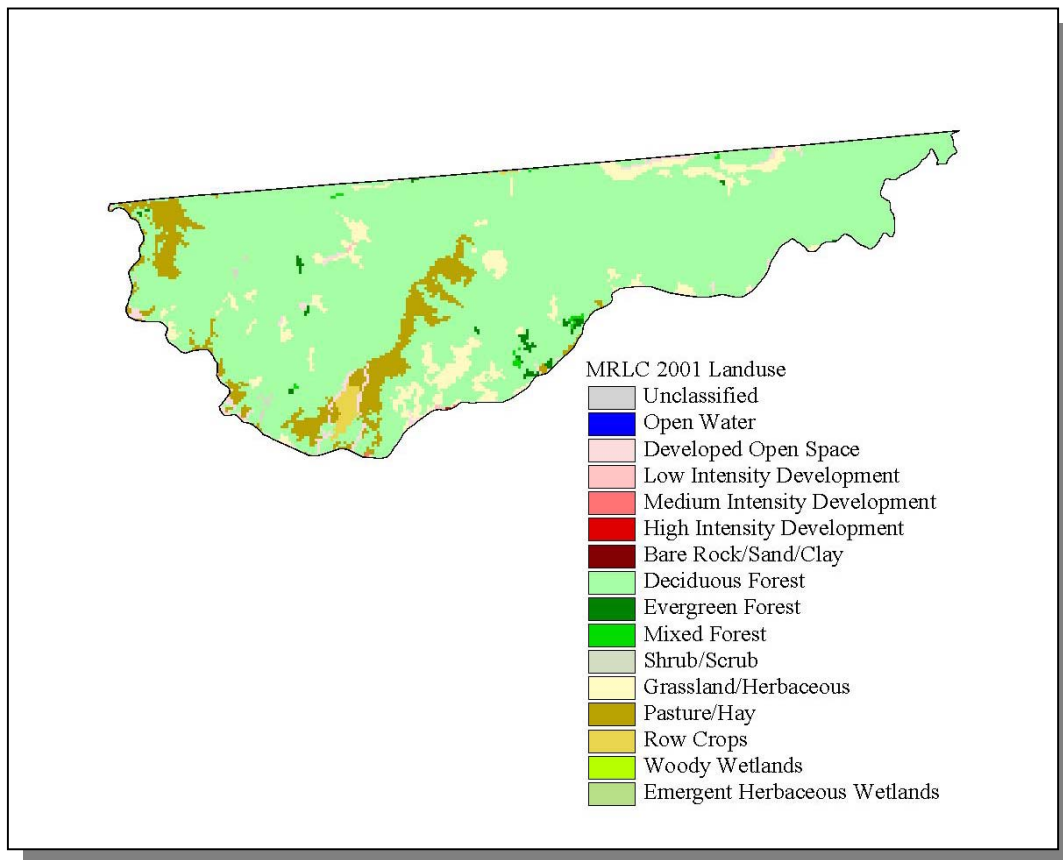
**Table 4-11. Annual Estimated Total Soil Loss in Subwatershed 051301030708.**

**4.2.B.ii. 051301030709 (McFarland Creek).**

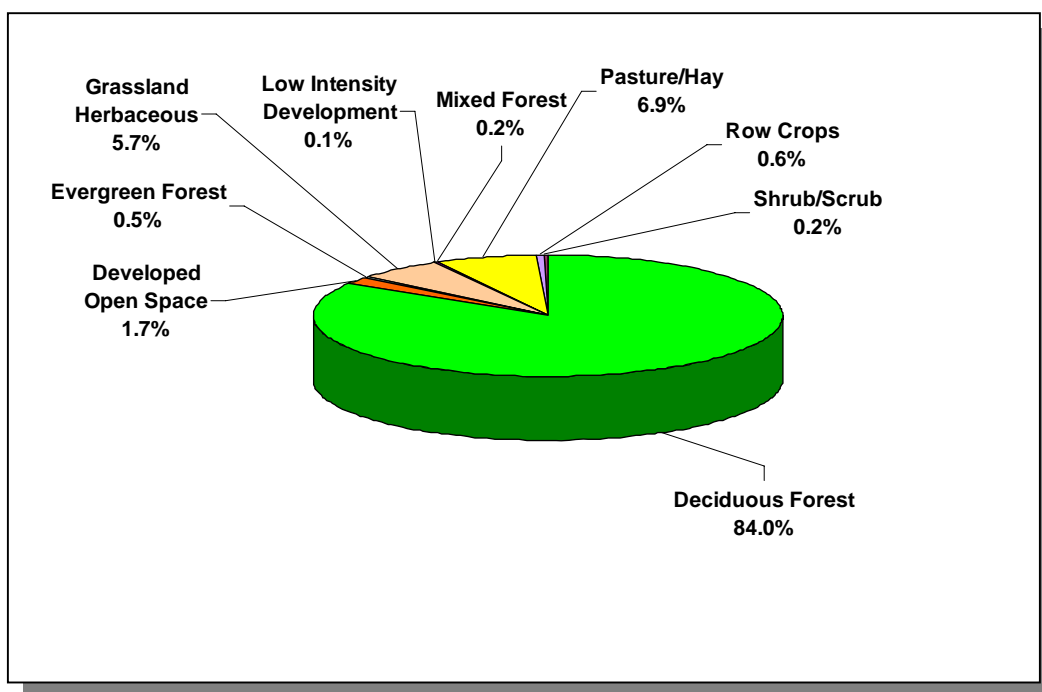


**Figure 4-10. Location of Subwatershed 051301030709.** All Upper Cumberland River HUC-12 subwatershed boundaries in Tennessee are shown for reference.

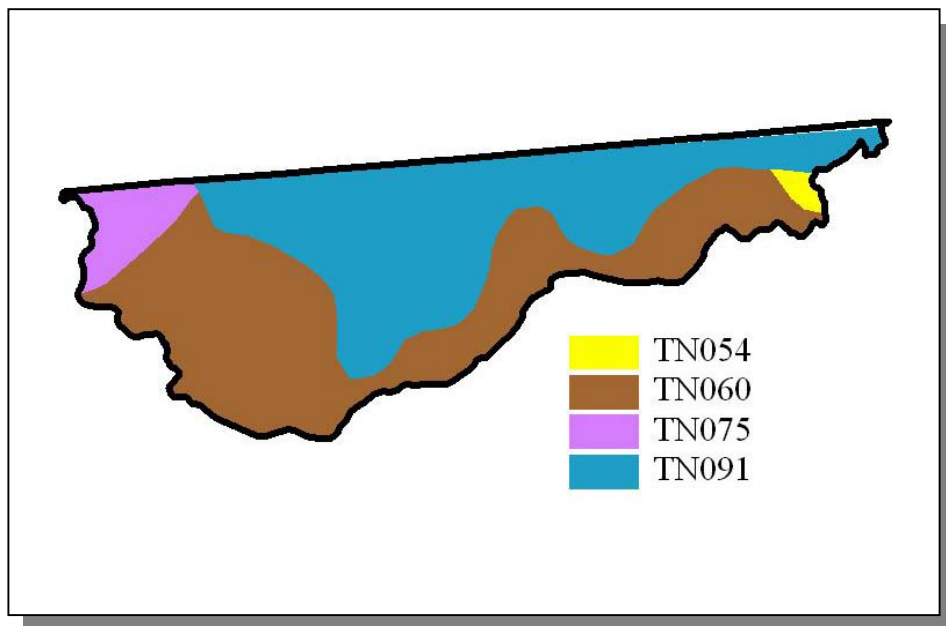




**Figure 4-11. Illustration of Land Use Distribution in Subwatershed 051301030709.**



**Figure 4-12. Land Use Distribution in Subwatershed 051301030709.** More information is provided in Appendix IV.



**Figure 4-13. STATSGO (State Soil Geographic Database) Soil Map Units in Subwatershed 051301030709.**

STATSGO MAP UNIT ID	PERCENT HYDRIC	HYDROLOGIC GROUP	PERMEABILITY (in/hour)	SOIL pH	ESTIMATED SOIL TEXTURE	SOIL ERODIBILITY
TN054	0.00	C	3.04	4.84	Loam	0.32
TN060	5.00	B	1.30	5.32	Silty Loam	0.39
TN075	0.00	B	1.33	5.24	Loam	0.31
TN091	0.00	B	2.95	5.86	Loam	0.34

**Table 4-12. Soil Characteristics by STATSGO (State Soil Geographic Database) Soil Map Units in Subwatershed 051301030709.** The definition of "Hydrologic Group" is provided in Appendix IV.

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County	COUNTY POPULATION			Portion of Watershed (%)	ESTIMATED POPULATION IN WATERSHED			% Change (1990-2000)
	1990	1997	2000		1990	1997	2000	
Clay	7,238	7,311	7,976	2.72	197	199	217	10.2

**Table 4-13. Population Estimates in Subwatershed 051301030709.**

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**4.2.B.ii.a. Point Source Contributions.**

There are no point source contributions in this subwatershed.

**4.2.B.ii.b. Nonpoint Source Contributions.**

LIVESTOCK COUNTS	
Cattle	Hogs
190	<5

**Table 4-14. Summary of Livestock Count Estimates in Subwatershed 051301030709.** According to the 1997 Census of Agriculture (<http://www.nass.usda.gov/census/>), "Cattle" includes heifers, heifer calves, steers, bulls and bull calves.

LIVESTOCK COUNTS				
County	Cattle	Chickens (Layers)	Hogs	Sheep
Clay	14,574	18	174	23

**Table 4-15. Summary of Livestock Count Estimates in Clay County.** According to the 1997 Census of Agriculture (<http://www.nass.usda.gov/census/>), "Cattle" includes heifers, heifer calves, steers, bulls and bull calves; "Chickens" are layers 20 weeks and older.

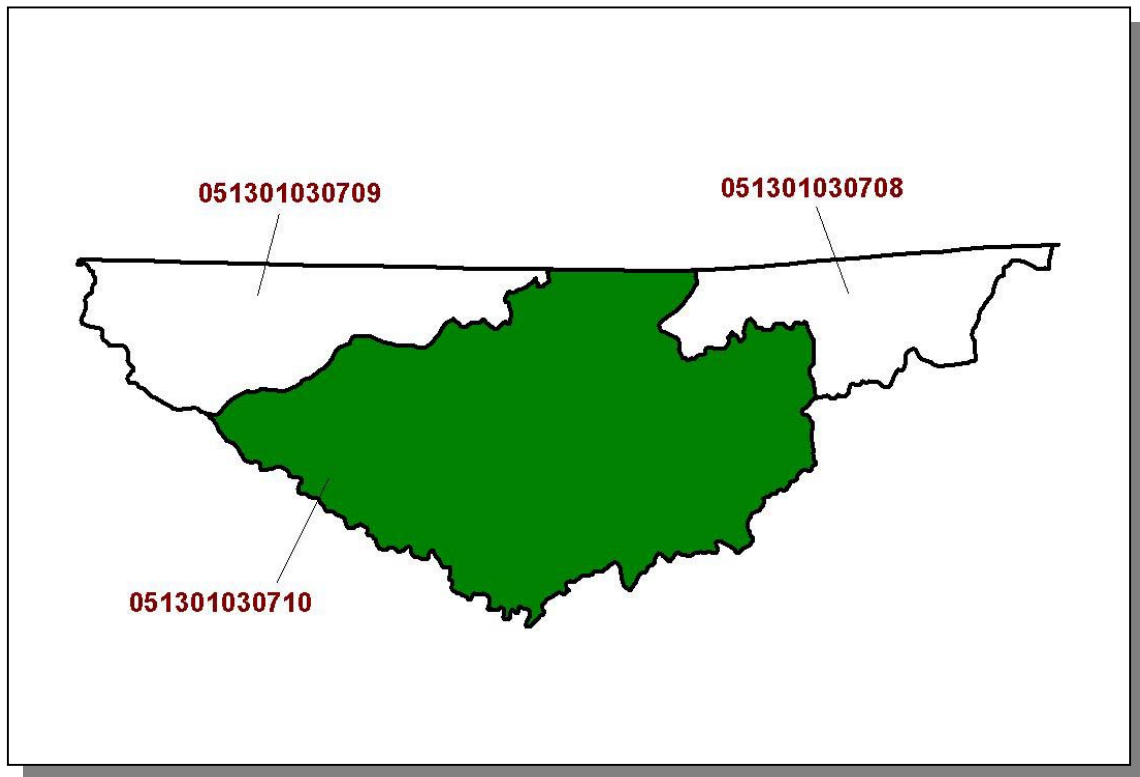
County	INVENTORY		REMOVAL RATE	
	Forest Land (thousand acres)	Timber Land (thousand acres)	Growing Stock (million cubic feet)	Sawtimber (million board feet)
Clay	105.1	105.1	2.3	10.1

**Table 4-16. Forest Acreage and Annual Removal Rates (1987-1994) in Clay County.**

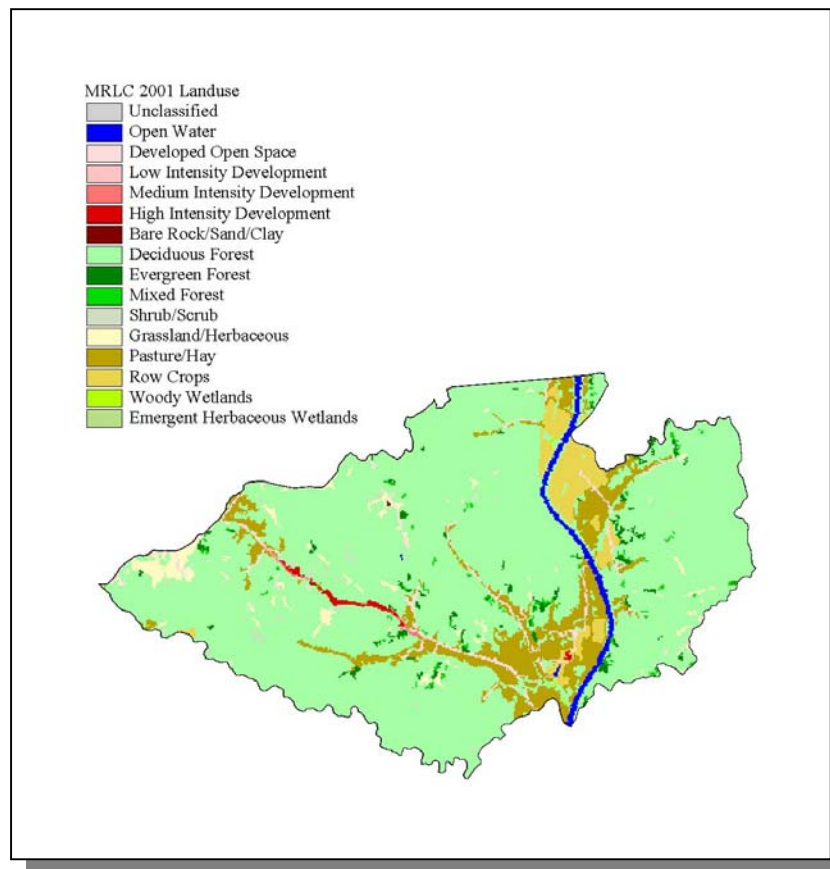
CROPS	TONS/ACRE/YEAR
Grass (Pastureland)	1.14
Grass (Hayland)	0.40
Legumes, Grass (Hayland)	0.53
Grass, Forbs, Legumes (Mixed Pasture)	1.38
Tobacco (Close-Grown Cropland)	28.52
Farmsteads and Ranch Headquarters	1.56

**Table 4-17. Annual Estimated Total Soil Loss in Subwatershed 051301030709.**

**4.2.B.iii. 051301030710 (Cumberland River).**

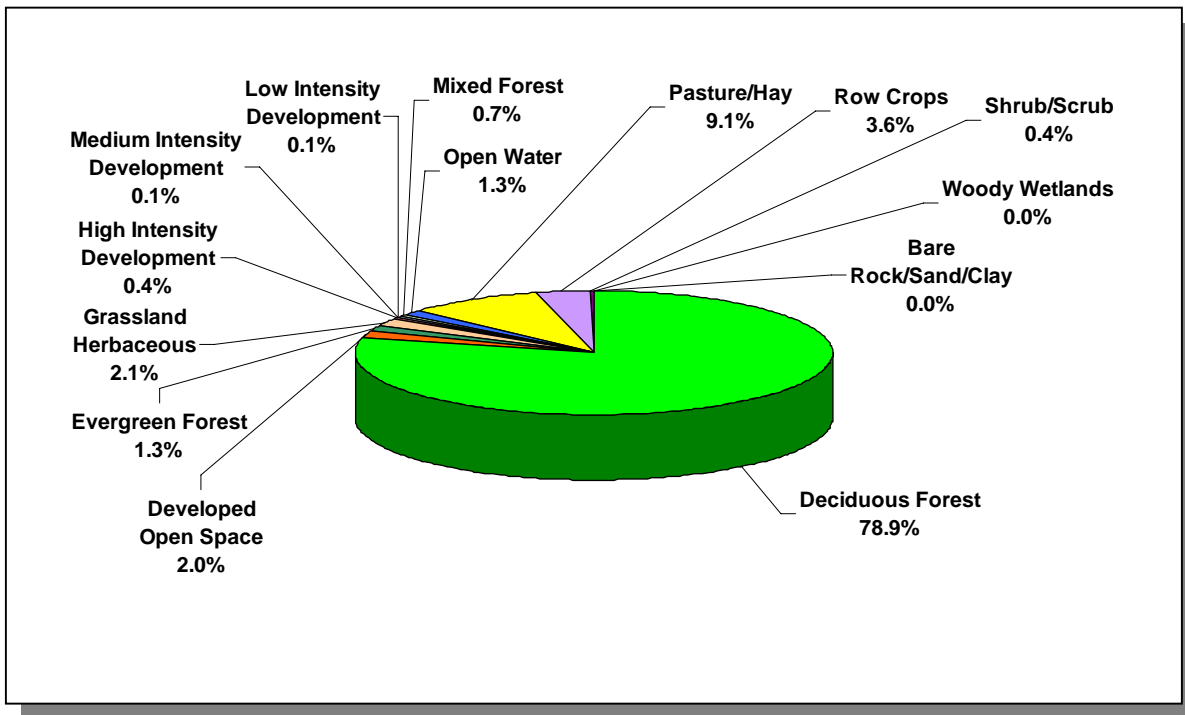


**Figure 4-14. Location of Subwatershed 051301030710.** All Upper Cumberland River HUC-12 subwatershed boundaries in Tennessee are shown for reference.



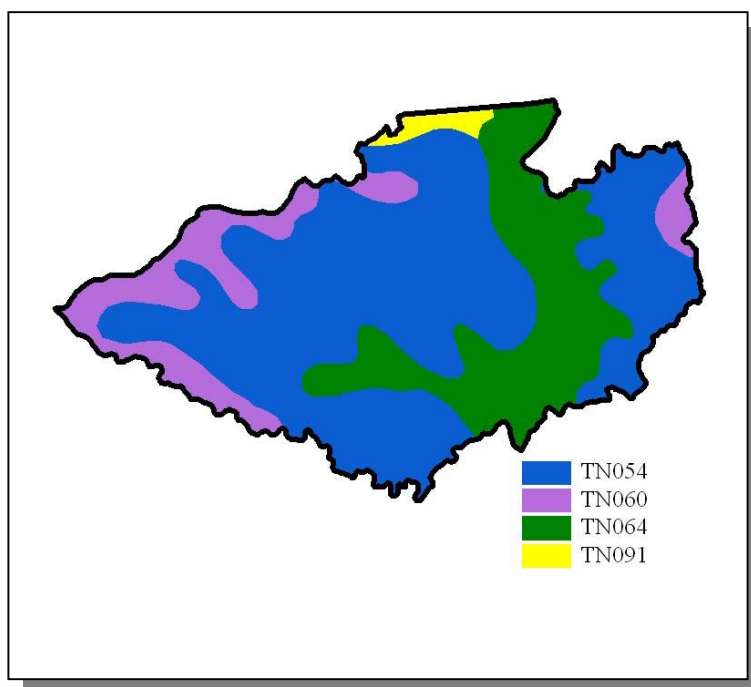
**Figure 4-15. Illustration of Land Use Distribution in Subwatershed 051301030710.**

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**Figure 4-16. Land Use Distribution in Subwatershed 051301030710.** More information is provided in Appendix IV.





**Figure 4-17. STATSGO (State Soil Geographic Database) Soil Map Units in Subwatershed 051301030710.**

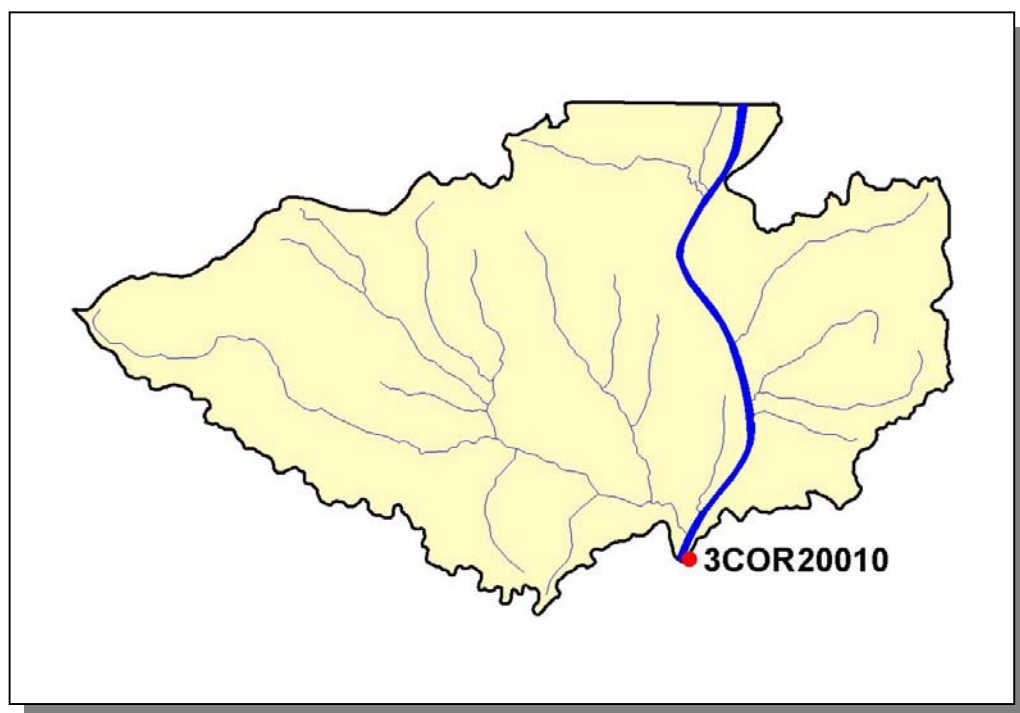
STATSGO MAP UNIT ID	PERCENT HYDRIC	HYDROLOGIC GROUP	PERMEABILITY (in/hour)	SOIL pH	ESTIMATED SOIL TEXTURE	SOIL ERODIBILITY
TN054	0.00	C	3.04	4.84	Loam	0.32
TN060	5.00	B	1.30	5.32	Silty Loam	0.39
TN064	7.00	C	1.19	5.82	Silty Loam	0.37
TN091	0.00	B	2.95	5.86	Loam	0.34

**Table 4-18. Soil Characteristics by STATSGO (State Soil Geographic Database) Soil Map Units in Subwatershed 051301030710.** The definition of "Hydrologic Group" is provided in Appendix IV.

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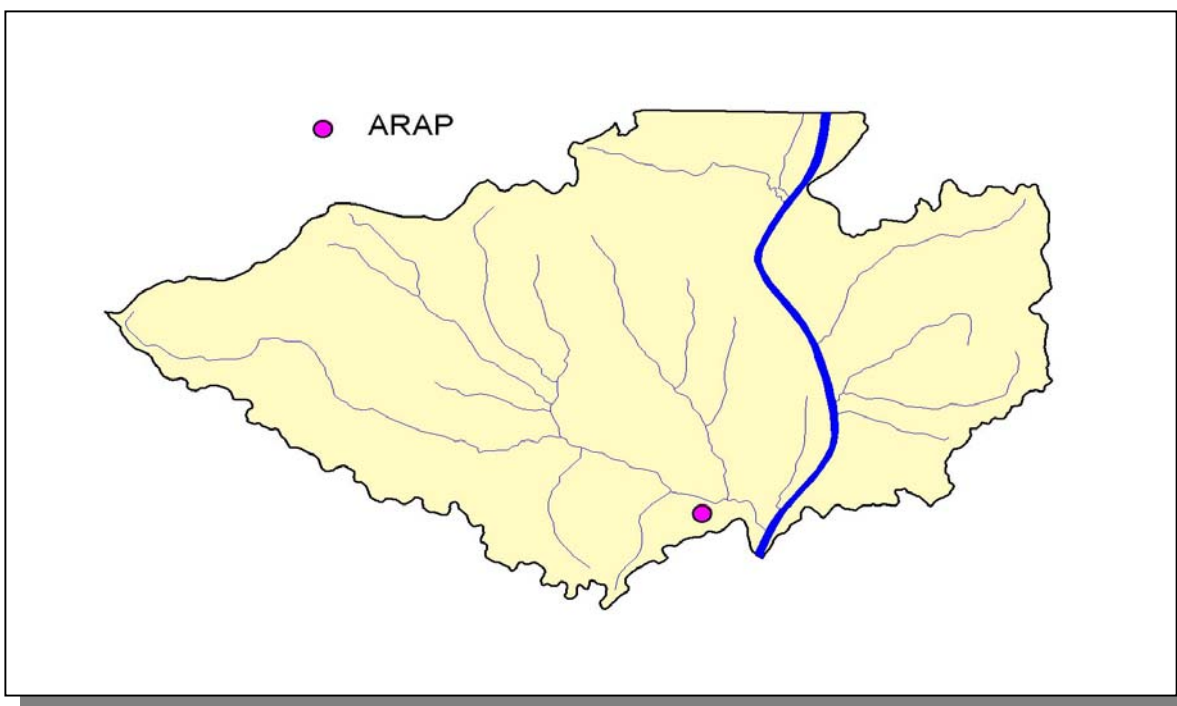
County	COUNTY POPULATION			Portion of Watershed (%)	ESTIMATED POPULATION IN WATERSHED			% Change (1990-2000)
	1990	1997	2000		1990	1997	2000	
Clay	7,238	7,311	7,976	8.08	585	591	645	10.3

**Table 4-19. Population Estimates in Subwatershed 051301030710.**

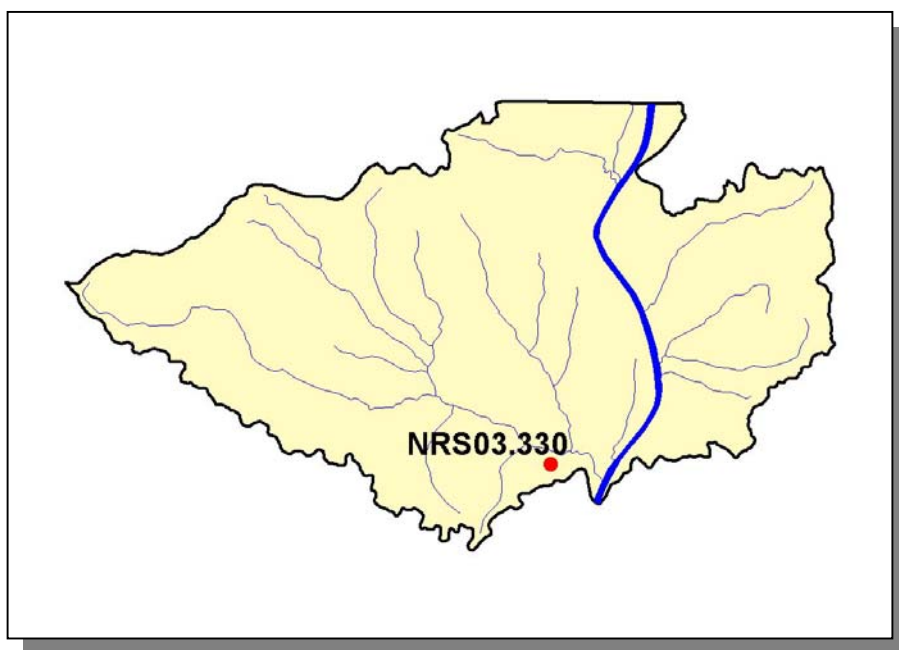


**Figure 4-18. Location of Monitoring Sites in EPA's STORET Database in the Tennessee Portion of Subwatershed 051301030710.** More information, including site names and locations, and station numbers for sites located in the watershed outside of Tennessee, is provided in Appendix IV.

**4.2.B.iii.a. Point Source Contributions.**



**Figure 4-19. Location of Permits Issued in Subwatershed 051301030710.** More information, including the names of facilities, is provided in Appendix IV.



**Figure 4-20. Location of Aquatic Resource Alteration Permit (ARAP) Sites (Individual Permits) in Subwatershed 051301030710. More information is provided in Appendix IV.**

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**4.2.B.iii.b. Nonpoint Source Contributions.**

LIVESTOCK COUNTS			
Beef Cow	Chickens (Layers)	Hogs	Sheep
750	<5	9	<5

**Table 4-20. Summary of Livestock Count Estimates in Subwatershed 051301030710.** According to the 1997 Census of Agriculture (<http://www.nass.usda.gov/census/>), "Cattle" includes heifers, heifer calves, steers, bulls and bull calves; "Chickens" are layers 20 weeks and older.

LIVESTOCK COUNTS				
County	Cattle	Cickens (Layers)	Hogs	Sheep
Clay	14,574	18	174	23

**Table 4-21. Summary of Livestock Count Estimates in Clay County.** According to the 1997 Census of Agriculture (<http://www.nass.usda.gov/census/>), "Cattle" includes heifers, heifer calves, steers, bulls and bull calves; "Chickens" are layers 20 weeks and older.

County	INVENTORY		REMOVAL RATE	
	Forest Land (thousand acres)	Timber Land (thousand acres)	Growing Stock (million cubic feet)	Sawtimber (million board feet)
Clay	105.1	105.1	2.3	10.1

**Table 4-22. Forest Acreage and Annual Removal Rates (1987-1994) in Clay County.**

CROPS	TONS/ACRE/YEAR
Grass (Pastureland)	1.14
Grass (Hayland)	0.40
Legumes, Grass (Hayland)	0.53
Grass, Forbs, Legumes (Mixed Pasture)	1.38
Tobacco (Row Crops)	28.52
Farmsteads and Ranch Headquarters	1.56

**Table 4-23. Annual Estimated Total Soil Loss in Subwatershed 051301030710.**